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PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Ali IRANMANESH

Application No. 08/829,772

Filing Date: March 31, 1997

For: METHOD AND APPARATUS FOR  
REDUCING PROCESS-INDUCED  
CHARGE BUILDUP



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MAR 15 2001

OFFICE OF PETITIONS

Docket No. ARTCP023

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on

Date:

March 6, 2001

Signed:

Neely Jo Weldy

Neely Jo Weldy

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

As assignee of record of the entire interest of the above identified

☒ application,  
☐ patent,

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given are hereby revoked and

**NEW POWER OF ATTORNEY**

the following attorneys and/or agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Peter B. Martine (Reg. No. 32,043); Albert S. Penilla (Reg. No. 39,487); Raymis H. Kim (Reg. No. 39,462); Chester Martine (Reg. No. 19,711); Joe A. Brock II (Reg. No. 46,021); Edward Mizumoto (Reg. No. 46,938); and Rick von Wohld (Reg. No. P-48,018)

Attorney Docket No. ARTCP023

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SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

**Albert S. Penilla**  
MARTINE, PENILLA & KIM, LLP  
710 Lakeway Dr., Suite 170  
Sunnyvale, CA 94086  
(408) 749-6900

Artisan Components, Inc. (per 37 CFR §3.73(b) Filed  
herewith)

(type or print identity of assignee of entire interest)

1195 Bordeaux Drive

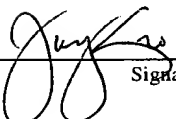
Address

Sunnyvale, CA 94089

- ☐ Recorded in PTO on \_\_\_\_\_  
Reel \_\_\_\_\_  
Frame \_\_\_\_\_  
☒ Recorded herewith.

**ASSIGNEE STATEMENT**

Attached to this power is a "STATEMENT UNDER 37 C.F.R. 3.73(b)."

  
Signature

Date: 2/20/01

Joy Leo

(type or print name of person authorized to sign on behalf of assignee)

Vice President of Administration and Finance, Chief Financial Officer

Title

Respectfully submitted,  
MARTINE PENILLA & KIM, LLP



Albert S. Penilla, Esq.  
Reg. No. 39,487

710 Lakeway Dr., Suite 170  
Sunnyvale, CA 94086  
(408) 749-6900  
**Customer Number 25,920**

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UNITED STATES DEPARTMENT OF COMMERCE  
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Washington, D.C. 20231

JULY 01, 1998

PTAS

MCDERMOTT, WILL & EMERY  
JAMES E. EAKIN, ESQ.  
2700 SAND HILL ROAD  
MENLO PARK, CA 94025



\*100706142A\*



UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/16/1998

REEL/FRAME: 9142/0431  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

IRANMANESH, ALI A.

DOC DATE: 07/02/1997

ASSIGNEE:

SYNOPSYS, INC.  
700 E. MIDDLEFIELD RD.  
MOUNTAIN VIEW, CALIFORNIA  
94033-  
4033

SERIAL NUMBER: 08829772

PATENT NUMBER:

FILING DATE: 03/31/1997  
ISSUE DATE:

AS ENTERED:

SHARMALLA SIMPSON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

JUL 16 1998

CALENDARED

BY  
ATTORNEY

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05-07-1998



100706142

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RECEIPT ACTING DIV.

A1996-022

ER SHEET

LY

To the Hon. Commissioner of Patents & Trademarks: Please record the attached original documents.

1. Name of conveying party(ies):

Ali A. Iranmanesh

Additional name(s) of conveying party(ies)  
See Attached? ☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 7/02/97

2. Name and address of receiving party(ies)

Name: Synopsys, Inc.

Street Address: 700 E. Middlefield Rd.

City: Mountain View, CA 94033-4033

Country: USA

Additional name(s) & addresses attached?  
Yes ☒ No

4. Application Number(s) or patent number(s) or description: 08/829,772

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent application No.(s) B. Patent No.(s)

Filed: 3/31/97

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed

Name: JAMES E. EAKIN, Esq.  
McDermott, Will & Emery

Street Address: 2700 Sand Hill Road

City: Menlo Park State: CA Zip: 94025

6. Total number of patents involved 1

7. Total fee (37CFR3.41) \$ 40.00  
Enclosed

☒ Authorized to be charged to deposit account.

8. Deposit Account Number 50-0385  
(Attach duplicate copy of this page if paying by Deposit Account)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James E. Eakin  
Name of Person Signing

Signature

Date 4/9/98

Total number of pages comprising cover sheet: 1

Mail documents to be recorded with required cover sheet information to:  
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Washington, D.C. 20231

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(Date of Deposit)

BRIDGETTE E. MASSEY

Typed/Printed Name

Bridgette E. Massey

Signature

4-14-98

Date of Signature

05/07/1998 DCOATES 00000012 500385 08829772

FC:581 40.00 CH

A-2



ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) ALI A. IRANMANESH (5) \_\_\_\_\_  
(2) \_\_\_\_\_ (6) \_\_\_\_\_  
(3) \_\_\_\_\_ (7) \_\_\_\_\_  
(4) \_\_\_\_\_ (8) \_\_\_\_\_

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For good and valuable consideration receipt of which is hereby acknowledged, the undersigned agree(s) to assign, and hereby do(es) assign, transfer and set over to:

(9) Insert name of Assignee (9) Synopsys, Inc.  
(10) Insert state of incorporation of Assignee (10) Delaware  
(11) Insert address of Assignee (11) of 700 East Middlefield Road, Mountain View, CA 94043-4033  
(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as  
(12) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number (12) METHOD AND APPARATUS FOR REDUCING PROCESS-INDUCED CHARGE BUILDUP Case No.34175.00046) (A1996-022)  
(Serial No. 08/829,772) for which the undersigned has (have) executed an application for patent in United States of America  
(13) Insert Date of Signing of Application (13) on 12/3/97

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and the duly constituted authorities of foreign countries to issue any and all Letters Patents resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, its successors and assigns, as Assignee of the entire right, title and interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

6) The undersigned hereby grant(s)

David L. Fehrman, Reg. N . 28,600; David L. Henty, Reg. No. 31,323; William J. Robinson, Reg. No. 29,430; Stuart L. Merkadeau, Reg. No. 33,262; David B. Ab I Reg. N . 32,394; Hisako Muramatsu, R g. No. 34,955; Brian M. B rlin r, R g. No. 34,549; David J. Meyer, Reg. N . 33,425; Lawrence W. Granatelli, Reg. No. 32,228; Vinc nt J. Belusko, R g. No. 30,820; Minda Schechter, Reg. No. 38,296; Laura A. Majerus, Reg. No. 33,417; Joseph K. Hollinger, R g. No. P40,649; J nathan T. Kaplan, Reg. N . 38,935, Marc A. Sock I, Reg. No. 40,823; Bryn E. Ekroot, R g. N . 38,129

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 12/3/97 Name of Inventor(s) David Fehrman

State of California )  
 ) ss  
 County of Santa Clara )

On \_\_\_\_\_, 199\_, before me, \_\_\_\_\_, the undersigned Notary Public, personally appeared \_\_\_\_\_, proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

(Seal)

WITNESS my hand and official seal.

Signature \_\_\_\_\_

Date \_\_\_\_\_ Name of Inventor(s) \_\_\_\_\_

State of California )  
 ) ss  
 County of Santa Clara )

On \_\_\_\_\_, 199\_, before me, \_\_\_\_\_, the undersigned Notary Public, personally appeared \_\_\_\_\_, proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

(Seal)

WITNESS my hand and official seal.

Signature \_\_\_\_\_

Date \_\_\_\_\_ Name of Inventor(s) \_\_\_\_\_

State of California )  
 ) ss  
 County of Santa Clara )

On \_\_\_\_\_, 199\_, before me, \_\_\_\_\_, the undersigned Notary Public, personally appeared \_\_\_\_\_, proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

(Seal)

WITNESS my hand and official seal.

Signature \_\_\_\_\_

## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "Assignment") is entered into as of January 4, 2001 by Synopsys, Inc., a Delaware corporation having its principal place of business located at 700 East Middlefield Road, Mountain View, California 94043 ("Seller"), for the benefit of Artisan Components, Inc., a Delaware corporation having its principal place of business located at 1195 Bordeaux, Sunnyvale, CA 94089-1210 (the "Company").

### RECITALS

WHEREAS, Seller and the Company are party to a certain Asset Purchase Agreement dated as of December 4, 2000, pursuant to which Seller has agreed to assign, among other things, certain intellectual property to the Company:

### ASSIGNMENT

NOW, THEREFORE, in consideration of the foregoing and the mutual promises contained herein and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties agree as follows:

1. Seller Patents. For purposes of this Assignment, "Seller Patents" shall mean each of the patents and patent applications listed on Schedule 1 hereto, and (i) any other patent rights owned or controlled by Seller in the patents and patent applications listed on Schedule 1, and the inventions covered thereby, and Foreign Counterparts (as defined below) thereof, and (ii) any additional patent rights Seller now owns, controls or has access to, or may own in the future which are now continuations, continuation prosecution applications ("CPAs"), continuations-in-part, divisionals or substitutes of the original applications upon which the aforementioned Schedule 1 patent and patent applications are based, and the inventions covered thereby, or Foreign Counterparts thereof, and upon any reexaminations, reissues, renewals or extensions thereof. "Foreign Counterparts" shall mean all foreign patent applications and issued foreign patents, utility models or invention registrations in any country throughout the world, which claim priority from, or share common priority with, an identified United States patent or patent application, or which claim and disclose substantially similar inventions that are the subject matter of such identified United States patent or patent applications.

2. Assignment. Seller hereby assigns, transfers and conveys to the Company all of Seller's rights, title and interest throughout the world in and to the Seller Patents, the underlying inventions described therein, and all rights, claims and privileges pertaining to the Seller Patents.

3. Effective Date. This Assignment shall be effective as of the date set forth above.



IN WITNESS WHEREOF, the undersigned has executed this Assignment as of the date first written above.

SYNOPSYS, INC., a Delaware corporation.

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Acknowledged:

ARTISAN COMPONENTS, INC., a Delaware corporation

By: \_\_\_\_\_

Name: MARK TEMPLETON

Title: PRESIDENT & CEO

Date: January 3, 2001

IN WITNESS WHEREOF, the undersigned has executed this Assignment as of the date first written above.

SYNOPSYS, INC., a Delaware corporation.

By: 

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Acknowledged:

ARTISAN COMPONENTS, INC., a Delaware corporation

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: January \_\_\_\_, 2001

# CALIF RNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara } ss.

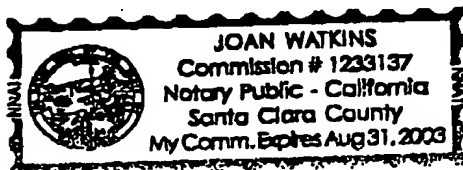
On Jan 03, 2001, before me, Joan Watkins, Notary Public  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Robert B. Wendle  
Name(s) of Signer(s)

☒ personally known to me

☐ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Joan Watkins  
Signature of Notary Public

Place Notary Seal Above

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: Patent Assignment

Document Date: 1/4/01 Number of Pages: 5

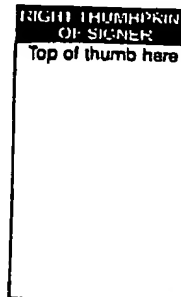
Signer(s) Other Than Named Above: Artisan Components

### Capacity(ies) Claimed by Signer

Signer's Name: Robert B. Wendle

- ☐ Individual
- ☒ Corporate Officer — Title(s): CFO
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_

Signer Is Representing: Synopsis



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ACKNOWLEDGMENT

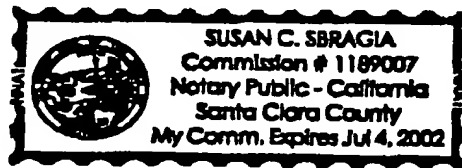
STATE OF CALIFORNIA

COUNTY OF SANTA CLARA

On 1-3, 2001, before me SUSAN C. SBRAGIA, a Notary Public in and for the County and State aforesaid, personally appeared MARK TEMPLETON, who is personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity and that by his/~~her/their~~ signature on such instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS, my hand and official seal.

Susan C. Sbragia  
Signature



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## **SCHEDULE 1**

### **List of Seller Patents (1-14)**

1.     Synopsys Docket No./Your docket No.: **SNPS #: A1995-017/M-1632**  
      **Title: BASIC CELL ARCHITECTURE FOR MASK PROGRAMMABLE GATE**  
      **ARRAY WITH THREE OR MORE TRANSISTORS**  
      (1) Application Serial No.: 07/717,140  
      (2) Patent No. if issued: 5,289,021  
      (3) Inventors: Abbas ElGamal  
      (4) Assignment Recordation Date: 6/30/95  
      (5) Assignment Recordation Frame/Reel: 7534.0160
  
2.     Synopsys Docket No./Your docket No.: **SNPS # A 1995-018 / M1293-div**  
      **Title: BASIC CELL FOR BICMOS GATE ARRAY**  
      (1) Application Serial No.: 07/743,532  
      (2) Patent No. if issued: 5,341,041  
      (3) Inventors: Abbas El Gamal  
      (4) Assignment Recordation Date: 6/30/95  
      (5) Assignment Recordation Frame/Reel: 7534/0164
  
3.     Synopsys Docket No./Your docket No.: **SNPS #: A 1995-019/ M-1292 RX**  
      **Title: BASIC CELL FOR BiCMOS GATE ARRAY**  
      (1) Application Serial No.: 524,207  
      (2) Patent No. if issued: 5,068,548  
      (3) Inventors: Abbas El Gamal
  
4.     Synopsys Docket No./Your docket No.: **SNPS #: A 1995-020/ M-1293 RX**  
      **Title: BiCMOS LOGIC CIRCUIT FOR ASIC APPLICATION**  
      (1) Application Serial No.: 07/524,207  
      (2) Patent No. if issued: B1-5,055,716  
      (3) Inventors: Abbas El Gamal  
      (4) Assignment Recordation Date: 6/30/95  
      (5) Assignment Recordation Frame/Reel: 7534/0158
  
5.     Synopsys Docket No./Your docket No.: **SNPS #: A 1995-021**  
      **Title: Basic cell for BiCMOS Gate Array**  
      (1) Application Serial No.:  
      (2) Patent No. if issued: 5,341,041  
      (3) Inventors:  
      (4) Assignment Recordation Date:  
      (5) Assignment Recordation Frame/Reel:

6. Synopsys Docket No./Your docket No.: **SNPS #: A1995-033/ M 3132**  
**Title: CAD AND SIMULATION SYSTEM FOR TARGETING IC DESIGNS TO MULTIPLE FABRICATION PROCESSES**  
(1) Application Serial No.: 08/511,172  
(2) Patent No. if issued: 5,754,826  
(3) Inventors: Abbas ElGamal, David Marple, Justin Reyneri  
(4) Assignment Recordation Date: 8/4/95  
(5) Assignment Recordation Frame/Reel: 7622/0345
7. Synopsys Docket No./Your docket No.: **SNPS #: A1995-084/ M-1632**  
**Title: BASIC CELL ARCHITECTURE FOR MASK PROGRAMMABLE GATE ARRAY WITH THREE OR MORE SIZE TRANSISTORS**  
(1) Application Serial No.: 08/595,567  
(2) Patent No. if issued: Pending  
(3) Inventors: Abbas El Gamal  
(4) Assignment Recordation Date: May 10, 1995
8. Synopsys Docket No./Your docket No.: **SNPS #: A1996-022/49725.015**  
**Title: METHOD AND APPARATUS FOR REDUCING PROCESS-INDUCED CHARGE BUILDUP**  
(1) Application Serial No.: 08/829,772  
(2) Patent No. if issued:  
(3) Inventors: Ali Aranmanesh  
(4) Assignment Recordation Date: 4/16/98  
(5) Assignment Recordation Frame/Reel: 9142/0431
9. Synopsys Docket No./Your docket No.: **SNPS #: A1998-032/49725.012**  
**Title: CELL BASED ARRAY COMPRISING LOGIC, TRANSFER AND DRIVE CELLS**  
(1) Application Serial Nos.: 09/163,890 and 60/060,417  
(2) Patent No. if issued: Pending  
(3) Inventors: Ali Iranmanesh  
(4) Assignment Recordation Date: 12/28/98  
(5) Assignment Recordation Frame/Reel: 9684/0975

10. Synopsys Docket No./Your docket No.: **SNPS #: A1998-017/49725.018**  
**Title: REDUCTION OF PROCESS ANTENNA EFFECTS IN INTEGRATED CIRCUITS**  
(1) Application Serial No.: 09/207,159  
(2) Patent No. if issued:  
(3) Inventors: Runip Gopisetty and Neeraj Dogra  
(4) Assignment Recordation Date: 12/7/98  
(5) Assignment Recordation Frame/Reel: 9636/0708
11. Synopsys Docket No./Your docket No.: **SNPS #: A1998-031/49725.019**  
**Title: CELL BASED ARRAY HAVING COMPUTE/DRIVE RATIOS OF N:1**  
(1) Application Serial No.: 09/164,000  
(2) Patent No. if issued: Pending  
(3) Inventors: Ali Iranmanesh and Puneet Sawhney  
(4) Assignment Recordation Date: 12/06/99  
(5) Assignment Recordation Frame/Reel: 010428/0277
12. Synopsys Docket No./Your docket No.: **SNPS #: A1997-016/49725.012**  
**Title: CELL BASED ARRAY HAVING COMPUTE/DRIVE**  
(1) Application Serial No.: 08/885,148  
(2) Patent No. if issued: Pending  
(3) Inventors: Ali Iranmanesh  
(4) Assignment Recordation Date: 4/13/98  
(5) Assignment Recordation Frame/Reel 9102/0945
13. Synopsys Docket No./Your docket No.: **SNPS #: A2000-013/49725.067**  
**Title: VOLTAGE TOLERANT I/O CIRCUIT**  
(1) Application Serial No.: 09/615,959  
(2) Patent No. if issued: Pending  
(3) Inventors: Jamil Kawa, et al.
14. Synopsys Docket No./Your docket No.: **SNPS #: A1999-046**  
**Title: Cell Based Array having Compute/Drive Ratios of N:1**  
(1) Application Serial No.:  
(2) Patent No. if issued:  
(3) Inventors: .